

Amendments to the Claims

1. (Currently amended) A casting mould formed of base (2), wall (4,5) and end plates (6) for manufacturing of a pyrometallurgical reactor cooling element, characterized in that the casting mould (1) made of copper plates is at least partly equipped with cooling pipes, (3) and that the mould is being lined on the inside with a plate (7) plates resistant to high temperatures, the plates resistant to high temperatures being fixed to the surface of the mould by means of underpressure.

2. (Currently amended) A casting mould according to claim 1, characterized in that wherein the casting mould (1) is lined with plates resistant to high temperatures are graphite plates (7).

3. (Cancelled)

4. (Currently amended) A casting mould according to claim 1 characterized in that wherein shaped pieces (9) made of graphite or fire-resistant material are placed on the base of the casting mould (1).

5. (Cancelled)

6. (Cancelled)

---7. (New) The casting mould according to claim 1, wherein said cooling pipes are arranged within a base plate of the casting mould to provide cooling of the casting mould.---

---8. (New) The casting mould according to claim 7, wherein said cooling pipes are additionally arranged within side and end walls of the casting mould to provide cooling of the casting mould.---

---9. (New) The casting mould according to claim 1, further comprising a cope to retain a layer of shielding gas over the surface of the mould, which layer prevents excessive oxidation of molten material when the molten material is poured into the mould.---

---10. (New) The casting mould according to claim 1, further comprising inserts placed into the cavity of the mould, the inserts being resistant to high temperatures and serving to create a corresponding negative shape in the cooling element to be cast.---